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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Donglei WANG
Serial No. : 10/687,393
Filed : October 15, 2003
For : PORTABLE ELECTRIC HEATING COOKER
Art Unit : 3742
Examiner : Not Yet Assigned

Transmitted herewith are the following:

X SUBMISSION OF PRIORITY DOCUMENT w/CERTIFICATE OF MAILING;

X ORIGINAL PEOPLE'S REPUBLIC OF CHINA PATENT APPLICATION 02 2
48706.9; and

X ACKNOWLEDGMENT POSTCARD.

X The Commissioner is authorized to charge any additional fees required, or to credit
any overpayment to Account No. 02-1435. A duplicate copy of this sheet is enclosed.

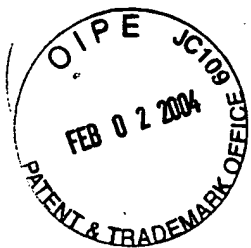
_____ A check in the amount of \$ _____ is enclosed.

X I hereby certify that this correspondence is being deposited with the United States Postal
Service as first class mail in an envelope addressed to: ATTENTION: BOX - NO FEE
SUBMISSION, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313 -
1450 on January 29, 2004

Respectfully,

CHARLES E. BAXLEY
Attorney of Record
USPTO REG. 20, 149

Dated: January 29, 2004
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ATTENTION: MAIL STOP - NO FEE SUBMISSION

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313 - 1450

SUBMISSION OF PRIORITY DOCUMENT

Dear Sir:

In the above referenced United States Patent Application I enclose herewith a true

MAILING CERTIFICATE

I hereby certify that this correspondence is being deposited with the United States Postal Service as First-class mail in an envelope addressed to: ATTENTION: MAIL STOP - NO FEE SUBMISSION, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313 - 1450 on the date indicated below:

Charles E. Baxley
Attorney's Name

Charles E. Baxley
Signature

January 29, 2004
Date

certified copy of Applicant's parent home-country People's Republic of China Patent Application
02 2 48706.9 filed October 16, 2002 on which priority of the present Application is claimed.

An English translation of the above referenced People's Republic of China
Application is also enclosed herewith.

Courtesy and cooperation of PTO hereon are acknowledged.

Respectfully,

By: *Charles E. Baxley*

CHARLES E. BAXLEY

Attorney of Record

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E-mail ceb@hartbaxley.com

CEB:lcr/13986 B

Enclosure: Original People's Republic of China Application 02 2 48706.9.

Certificate of Assignment

转让证书

I/We, the undersigned, hereby assign, on (day) 13 (month) Oct. (year) 2003,
all of my/our interests within the United States (including the right of priority) in
application No. 02248706.9 filed by me/us in (country) P.R. China on (day) 16th
(month) October (year) 2002 to (name, address and nationality of the assignee)
WANG Dong-lei, at No.1 Jinfeng Road, Tangjiawan Town, Xiangzhou District,
Zhuhai City, Guangdong Province, P.R. China

Assignor: ELEC-TECH INTERNATIONAL CO., LTD

Seal or Signature: _____

Address: No. 1 Jinfeng Road, Tangjiawan Town, Xiangzhou District, Zhuhai City,
Guangdong Province, P.R. China

Date: _____

Assignee: WANG Dong-lei

Seal or Signature: 王冬雷

Address: No. 1 Jinfeng Road, Tangjiawan Town, Xiangzhou District, Zhuhai City,
Guangdong Province, P.R. China

Date: Oct. 13, 2003

我/我们(签名者), 特此将我/我们 2002 年 10 月 16 日在 中 国提交的
第 02248706.9 号申请, 在美国的全部利益(包括优先权)于 2003 年 10 月
13 日转让给(受让人姓名或名称, 地址和国籍) 王冬雷, 中国国籍, 居住于广
东省珠海市香洲区唐家湾金风路 1 号

转让人: 广东德豪润达电气股份有限公司

受让人: 王冬雷

地 址: 广东省珠海市香洲区唐家湾
金风路 1 号

地 址: 广东省珠海市香洲区唐家湾
金风路 1 号

日 期: _____

日 期: _____

CERTIFICATE

The attachment of this certificate is a copy of the following patent application submitted to this office:

Filing date: 2002 10 16

Application No.: 02 2 48706.9

Type of invention: Utility Model

Title of the invention: A Portable Electric Heating Cooker

Applicant: ELEC-TECH INTERNATIONAL CO., LTD.

Inventor(s) or Designer(s): WANG Dong-lei

Director of the State Intellectual Property Office

of the People's Republic of China: WANG Jing-chuan

October 22, 2003

A Portable Electric Heating Cooker

Technical Field

This utility model relates to a portable electric heating cooker.

Background of the Invention

Currently, conventional electric heating apparatus for cooking, such as saucepots, electric ovens, are used indoors. Since people have more and more outdoor activities, such as outings, picnics, it is more and more desired to use various cooking apparatus outdoors. However, due to the deficiency in design, these cooking apparatus are not portable and not convenient for use.

Summary of the Invention

The main object of the present utility model is to provide a portable electric heating cooker, which is especially applicable to saucepots and electric ovens. Said cooker is portable and can improve heating efficiency, keep warm and prevent leakage.

The cooker according to the present utility model comprises a handle, a cover, a cooker bowl and a base, inside said base are installed heating means and control means, characterized in that, two or more than two joining means are provided on said cooker, said joining means can be used to make said cooker into an integral and portable body when necessary.

A sealing ring may be further included which is installed at the brim of said cover or at the brim of said cooker bowl. With said sealing ring, said cover can be pressed on said cooker bowl tightly, so as to prevent leakage when carrying.

A partition board may be installed inside said cooker bowl, so that, different kinds of food or food of different tastes may be braised or broiled in the same cooker.

Brief Description of the Drawings

Fig.1 is an explosive diagram of said portable saucepots or electric oven.

Fig.2 is a schematic map of said portable saucepots or electric oven.

Fig.3 is a schematic map of said cooker bowl and cover.

Fig.4 is a schematic map of said cooker bowl with a partition board.

Detailed Description of the Preferred Embodiments

As shown in Fig.1, the portable saucepots or electric oven according to the present utility model comprises a handle 1, a cover 2, a cooker bowl 3, a joining means 4, a base 5 with the heating means installed inside and control means. Said handle 1 is for taking and placing the cover. Said cover 2 is for keeping warm and preventing dust. Said cooker bowl 3 is for braising or broiling food. Said joining means 4 is connected with the base 5 by hinge, said joining means can be used to join the cooker into an integral body when necessary for portable carrying.

Said base 5 is equipped with heating means and control means inside, and provides energy for braising or broiling by said heating means therein.

As shown in Fig. 2, said electric heating cooker is joined into an integral body by said joining means, so that, the cooker can be carried with a single hand and is convenient for taking outdoors.

As shown in Fig. 3, a sealing ring 6 is secured at the brim of said cover 2 or at the brim of said cooker bowl 3 of the portable sauceports or electric oven. With the aid of said joining means or other mechanism, said cover can be pressed on said cooker bowl tightly, so as to prevent leakage when carrying.

As shown in Fig. 4, a partition board 7 is installed inside said cooker bowl to separate the cooker bowl into two or more parts.

CLAIMS

1. A portable electric heating cooker, characterized in that, two or more joining means are provided on said cooker.

2. A portable electric heating cooker according to claim 1, characterized in that, a sealing ring is secured at the brim of said cover or at the brim of said cooker bowl, said cover can be pressed on said cooker bowl tightly.

3. A portable electric heating cooker according to claim 1, characterized in that, partition boards are installed inside said cooker bowl to separate said cooker bowl into two or more parts, said partition board may be secured to said cooker bowl or may be moveable.

4. A portable electric heating cooker according to claim 1, characterized in that, said joining means is joined to said cooker base or said cover by hinge, or by other joining mechanism, and said joining means can be used to join the cooker base and the cover together by compressing or straining.

5. A portable electric heating cooker according to claim 1, claim 2, claim 3 or claim 4, characterized in that, said sealing ring is fixed with said cover or said cooker bowl.

6. A portable electric heating cooker according to claim 5, characterized in that, said sealing ring is sealed by the force passed from said joining means, or by the joining mechanism between said cover and said cooker bowl, such as screws or couplings, etc.

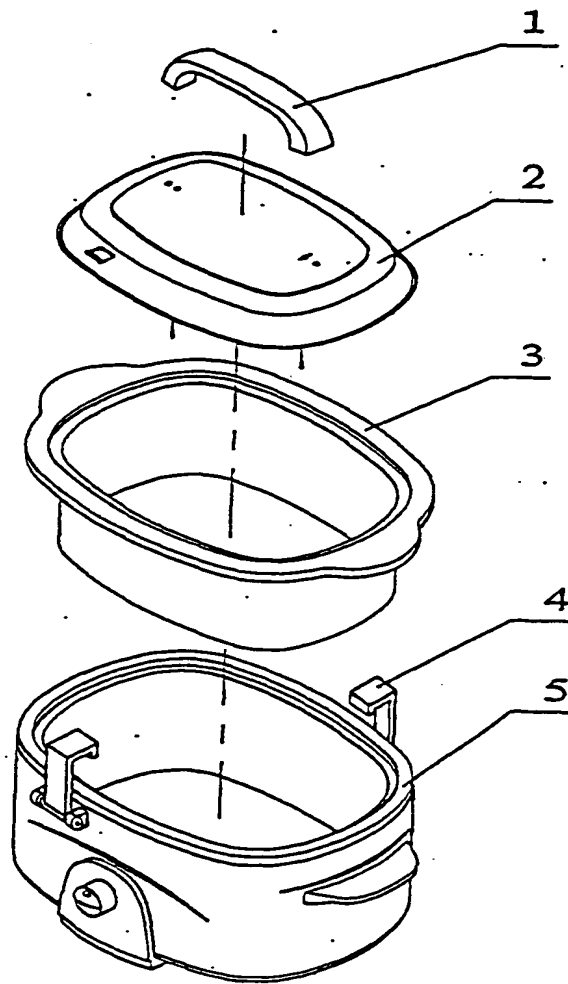


Fig. 1

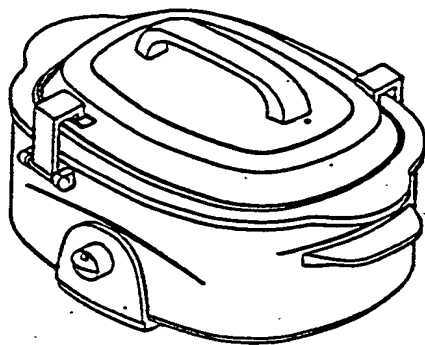


Fig. 2

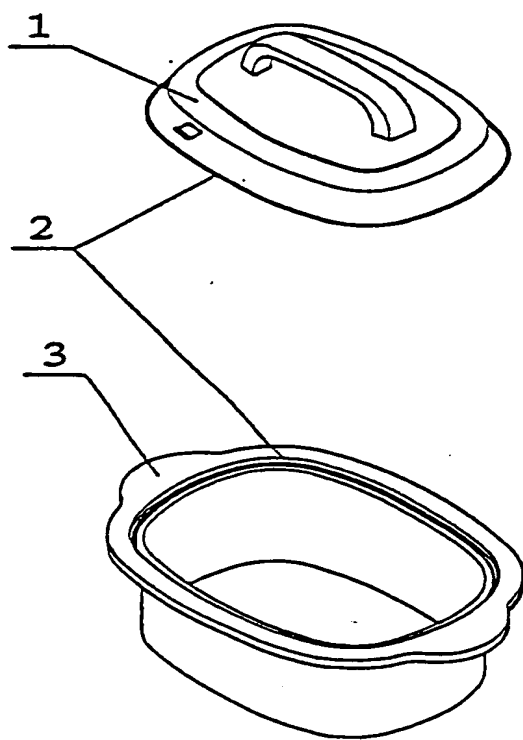


Fig.3

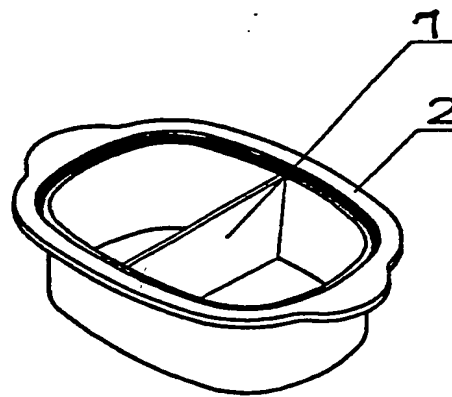


Fig.4

证 明

本证明之附件是向本局提交的下列专利申请副本

申 请 日： 2002 10 16

申 请 号： 02 2 48706.9

申 请 类 别： 实用新型

发明创造名称： 具有便携式功能的电热炊具

申 请 人： 广东德豪润达电气股份有限公司

发明人或设计人： 王冬雷

中华人民共和国
国家知识产权局局长

王 荣 川

2003 年 10 月 22 日

权 利 要 求 书

- 1、 具有便携式功能的电热炊具，其特征在于在所述炊具上设置两处或多处压紧装置。
- 2、 根据权利要求 1 所述的具有便携式功能的电热炊具，其特征在于锅盖或锅体边缘固定有一个密封圈，所述锅盖压紧在锅体上。
- 3、 根据权利要求 1 所述的具有便携式功能的电热炊具，其特征在于锅体内设置有固定或能够任意拆装的分隔板，将锅体分成两个或多个部分。
- 4、 根据权利要求 1 所述的具有便携式功能的电热炊具，其特征在于压紧装置通过铰链或其他连接装置与底座或锅盖相连，并且将它们压紧或拉紧在一起。
- 5、 根据权利要求 1 或 2 或 3 或 4 所述的具有便携式功能的电热炊具，其特征在于所述密封圈与锅盖或锅体固定在一起。
- 6、 根据权利要求 5 所述的具有便携式功能的电热炊具，其特征在于所述密封圈的密封作用通过压紧装置传递的压力或者通过锅盖与锅体之间螺纹、扣位等方式实现。

具有便携式功能的电热炊具

技术领域

本实用新型属于一种具有便携式功能的电热炊具。

背景技术

目前，常用的慢炖锅、电烤炉等电热炊具，一般都在室内使用。由于人们郊游、野餐等户外活动越来越多，为了满足人们的需要，各种厨房器具也越来越多的在野外使用。不过因为设计的局限性，这些器具在户外使用大多有携带和操作不便之处。

本实用新型内容

本实用新型的目的，就是提供一种具有便携式功能的电热炊具，特别适用于慢炖锅、电烤炉等。该器具不仅便于携带，而且还能起提高热效率、保温和防止泄漏等作用。

本实用新型包括手把、锅盖、锅体及内设发热装置及控制装置的底座，其特征是，在所述炊具上设置两处或多处压紧装置，所述压紧装置在需要时可以将器具连成一个整体，以便于携带。

所述锅盖或锅体边缘加一圈密封圈，锅盖压紧在锅体上，可以起在携带中防止泄漏作用。

所述锅体内可以设置分隔板，可以在一个锅内炖制或烤制不同种类、不同口味的食物。

附图一为具有便携式功能的慢炖锅或电烤炉分解图。

附图二为具有便携式功能的慢炖锅或电烤炉结构示意图。

附图三为锅体、锅盖结构示意图。

附图四为带有分隔板的锅体结构示意图。

如附图一所示，具有便携式功能的慢炖锅或电烤炉一般包括手把 1、锅盖 2、锅体 3、压紧装置 4、内有发热装置及控制装置的底座 5 等几部分。手把 1 起拿、放锅盖的作用；锅盖 2 起保温和防尘作用；锅体 3 用于炖制、烤制食物；压紧装置 4 通过铰链与底座 5 相连，在需要时可以将整台机器连成一个整体，以便于携带；底座 5 内装有发热装置及控制装置，通过底座内的发热带提供炖制、烤制食物的能量。

如附图二所示，，压紧装置将机器连成整体，可以用一只手很方便的拿起，便于在室外携带。

如附图三所示，具有便携式功能的慢炖锅或电烤炉的锅盖 2 或锅体 3 边缘还固定有一个密封圈 6，通过压紧装置或者另外一些机构的作用，将锅盖压紧在锅体上，可以起在携带中防止泄漏作用。

如附图四所示，锅体内设置有分隔板 7，将锅体分成两部分或多个部分。

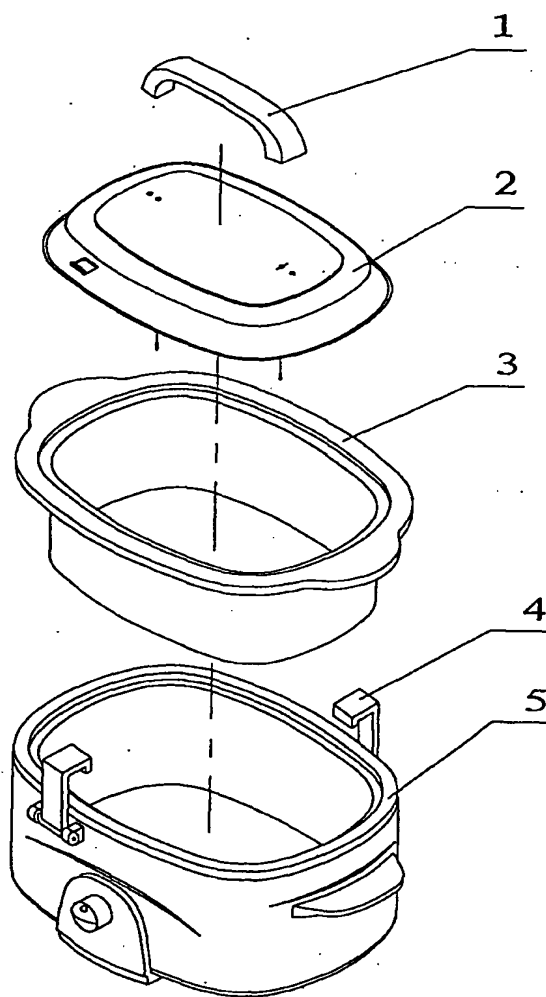
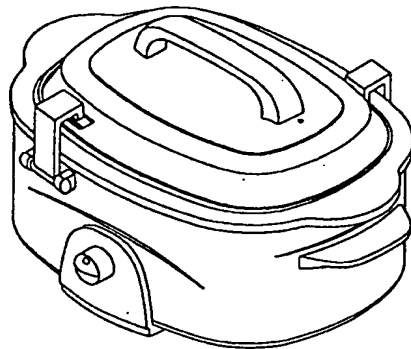


图 一



图

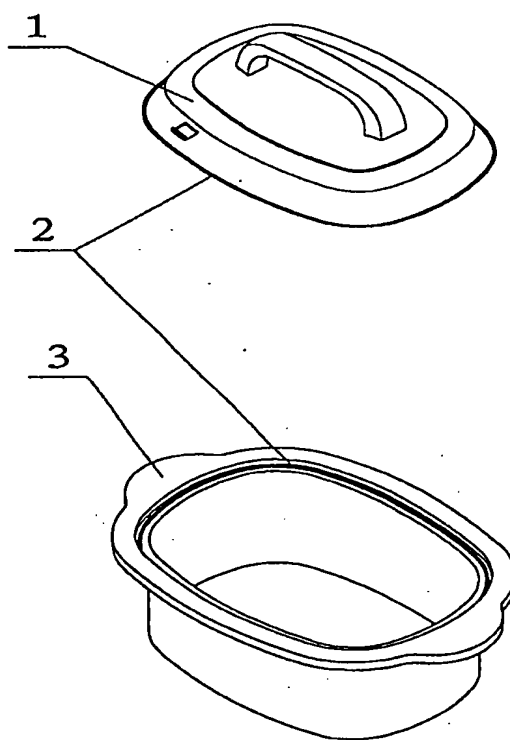
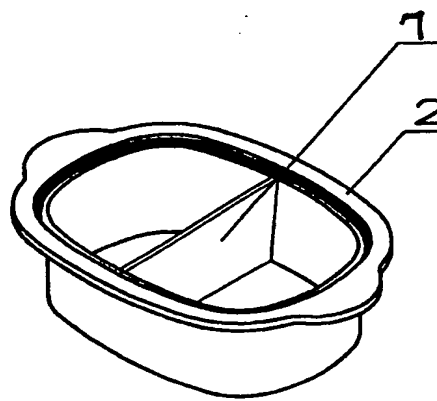


图 三

(6)

说明书附图



图示四